

ROVER 500

(MAPP 15496)

Suspension concentrate
containing 500 g/l
(40.58% w/w) chlorothalonil.

A multi-site protectant
fungicide for the control of
Septoria diseases in Wheat and
Rhynchosporium in Barley.

IMPORTANT INFORMATION - FOR USE ONLY AS AN AGRICULTURAL FUNGICIDE

Crops	Maximum individual dose:	Maximum total dose:	Latest time of application:
Wheat	2.0l/ha	4.0l/ha	Before caryopsis watery ripe stage (GS71)
Barley	2.0l/ha	4.0l/ha	Before beginning of heading (GS51)

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

IMPORTANT The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.



HARMFUL

HARMFUL BY INHALATION.
IRRITATING TO RESPIRATORY
SYSTEM AND SKIN.
LIMITED EVIDENCE OF A CARCINOGENIC EFFECT.
RISK OF SERIOUS DAMAGE TO EYES.
MAY CAUSE SENSITISATION BY SKIN CONTACT.



DANGEROUS FOR THE ENVIRONMENT

VERY TOXIC TO THE AQUATIC ORGANISMS,
MAY CAUSE LONG TERM ADVERSE EFFECTS IN
THE AQUATIC ENVIRONMENT.

Safety Data Sheet available for the professional user on request. To avoid risks to man and the environment, comply with the instructions for use.

ROVER is a trademark of Sipcarn UK Limited.

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Marketing Company: Sipcarn UK Limited, 4C Archway House, The Lanterns, Melbourn Street, Royston, Herts, SG8 7BX.

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SIPCARN UK CONDITIONS OF SUPPLY: All goods supplied by us are of high grade, but as we cannot exercise control over their mixing or use, all conditions and warranties, statutory or otherwise, as to the quality or fitness of our goods for any purpose, are excluded and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use.

Net contents:

10Le

Batch Number:

SIPCARN U.K.

DIRECTIONS FOR USE

Mixing

To ensure even distribution of contents immediately before measuring, gently invert the container a few times. Half fill the spray tank with clean water and add the measured quantity of **ROVER 500** whilst agitation is in progress. Complete filling of the water and continue agitation throughout the spraying application.

Spray Quality

Apply as a **medium spray** as defined by BCPC.

Cleaning

On emptying the container, **rinse container thoroughly** by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of container safely.

Thoroughly rinse the sprayer and measuring equipment immediately after use.

APPLICATION RATES AND TIMING

Winter and Spring Wheat

Diseases controlled: Leaf spot (*Septoria tritici*) and Glume blotch (*Leptosphaeria* (syn. *Septoria*) *nodorum*).

Timing

ROVER contains chlorothalonil, a protectant fungicide best applied before disease onset or at the first sign of an attack.

A single application in the early spring at growth stage 30-32 if conditions favour the development of *Septoria tritici*, may prevent the spread of the disease within the crop.

A later application from growth stage 33-65 may be used to protect the flag leaf and ear. For best results apply between growth stages 33-39.

Note: Activity against *Septoria* may be reduced in the presence of serious mildew infection.

Application Rate: Apply **ROVER 500** at 2 litres per hectare.

Application Volume: 200 to 400 litres of water per hectare as a MEDIUM spray (as defined by BCPC) at a pressure of at least 2.0 bar.

Barley

Diseases controlled: Leaf scald (*Rhynchosporium secalis*) [moderate control]

Timing

ROVER contains chlorothalonil, a protectant fungicide best applied before disease onset or at the first sign of an attack.

A single application as soon as disease is first detected in the crop.

A second application may be made before growth stage 51 (beginning of heading) if severe *Rhynchosporium* pressure occurs or if there is a risk of leaf spotting.

Application Rate: Apply **ROVER 500** at 2 litres per hectare.

Application Volume: 200 to 400 litres of water per hectare as a MEDIUM spray (as defined by BCPC) at a pressure of at least 2.0 bar.

Shake well before use. Protect from frost

SAFETY PRECAUTIONS

Operator Protection

Engineering control of operator exposure must also be used where reasonably practicable in addition to the following personal protective equipment.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) WHEN HANDLING THE CONCENTRATE.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES WHEN HANDLING CONTAMINATED SURFACES.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS, HOOD).

However, other engineering controls in addition to those specified above may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection

WASH ALL PROTECTIVE CLOTHING THOROUGHLY AFTER USE, ESPECIALLY THE INSIDES OF GLOVES.

WASH SPLASHES FROM SKIN OR EYES IMMEDIATELY. IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

WHEN USING DO NOT EAT DRINK OR SMOKE.

DO NOT BREATHE SPRAY.

AVOID CONTACT BY MOUTH, WITH SKIN AND EYES.

WASH HANDS AND EXPOSED SKIN BEFORE EATING, DRINKING OR SMOKING AND AFTER WORK.

Environmental Protection

DO NOT ALLOW DIRECT SPRAY from crop sprayers to fall within 5m of the top of the bank of a static or flowing waterbody, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1m of the top of a ditch which is dry at the time of application.

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer or broadcast air-assisted sprayer, either a LERAP must be carried out in accordance with PSD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

DO NOT CONTAMINATE SURFACE WATER OR DITCHES with chemical or used container.

USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION.

Storage and Disposal

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP IN ORIGINAL CONTAINER, TIGHTLY CLOSED, IN A SAFE PLACE.

WASH OUT CONTAINER THOROUGHLY, EMPTY WASHINGS INTO SPRAY TANK AND DISPOSE OF SAFELY.

THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY.

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY

Product name – ROVER 500.

MAPP – 15496.

Use – Fungicide.

Formulation Type – Suspension Concentrate.

Supplier – Sipcam UK Limited, 3a, The Barn, 27 Kneesworth Street, Royston SG8 5AB.

Emergency phone no – Office 01763 212100.

2. HAZARDS IDENTIFICATION

Classification of substance according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful



R20-40-37/38-41-43

N; Dangerous for the environment



R50/53:

Additional information – For the wording of risk and safety phrases refer to section 15.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients (according to Directive 1999/45/EC).

CAS/EINECS	R Phrases	%
chlorothalonil 1897-45-6 / 217-588-1	T+ R26; Xn R40; Xi R37-41; Xi R43; N R50/53	25-50% 25-50%

Additional information– For the wording of the listed risk phrases refer to section 16.

4. FIRST AID MEASURES

General information – Show this safety data sheet to the doctor. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation – Supply fresh air or oxygen; call for doctor. In case of unconsciousness bring patient into stable side position for transport.

After skin contact – Instantly wash with water and soap and rinse thoroughly. Instantly rinse with water.

After eye contact – Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing – In case of persistent symptoms consult doctor.

Information for doctor – No specific antidote, treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media – CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Special hazards arising from the substance or mixture – No further relevant information available.

Protective equipment – Put on breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions – Not required.

Environmental precautions – Inform respective authorities in case product reaches water or sewage system.

Dilute with much water. Do not allow to enter drainage system, surface or ground water.

Methods and material for containment and cleaning up – Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.

7. HANDLING AND STORAGE

Precautions for safe handling – Ensure good ventilation/exhaustion at the workplace.

Open and handle container with care.

Information about protection against explosions and fires – No special measures required.

Requirements to be met by storerooms and containers – No special requirements.

Information about storage in one common storage facility – Not required.

Further information about storage conditions – Keep container tightly sealed.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Components with limit values that require monitoring at the workplace – 1897-45-6 chlorothalonil (50%) TLV 5 mg/m³.

Personal protective equipment – The usual precautionary measures should be adhered to general rules for handling chemicals.

Avoid contact with the eyes and skin.

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing.

Breathing equipment – In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Protection of hands – Protective gloves.

Eye protection – Tightly sealed safety glasses.

Body protection – Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance –

Form – Liquid.

Colour – Whitish.

Odour – Weak, characteristic.

pH value at 20°C – 6-8.

Melting point or range – Not determined.

Boiling point/range – > 100°C.

Flash point – Not applicable.

Self-inflammability – Product is not self-igniting.

Danger of explosion – Product is not explosive.

Segregation coefficient – 1.94 log POW.

Solvent content – Organic solvents: 0%.

Solubility / Miscibility (water) – Dispersible.

Density – 1.24 g/cm³.

10. REACTIVITY AND STABILITY

Thermal decomposition / conditions to be avoided – No decomposition if used according to specifications.

Possibility of hazardous reactions – No dangerous reactions known.

Conditions to avoid – No further relevant information available.

Incompatible materials – No further relevant information available.

Hazardous decomposition products – No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

LD/LC50 values that are relevant for classification –

Oral LD50 >4000 mg/kg (rat)

Dermal LD50 >2000 mg/kg (rat)

Inhalation LC50/4 h 1.26 mg/l (rat)

Skin Irritation – Irritant to skin and mucous membranes.

Eye Irritation – Irritant effect.

Sensitisation – Sensitisation possible by skin contact.

12. ECOLOGICAL INFORMATION

Aquatic toxicity (active ingredient) –

EC 50 – 0.24 mg/l (algae).

LC 50 – 0.23 mg/l (*daphnia magna*).

LC 50 – 0.21 (96h) mg/l (carp).

Note – Very Toxic for fish.

Persistence and degradability – No further relevant information available.

Bio accumulative potential – 1897-45-6 chlorothalonil 500 g/l - Kow logP 1.94 (partition n-octanol/water).

Mobility in soil – No further relevant information available.

Notes – Do not allow product to reach groundwater, water bodies or sewage system.

Danger to drinking water if small quantities leak into soil.

13. DISPOSAL

Waste or used preparation – Use specialist waste contractor in accordance with local regulations.

Disposal of packaging – Use specialist waste contractor in accordance with local regulations.

14. TRANSPORT

UN-Number (ADR, IMDG, IATA) – 3082

Proper shipping name (ADR, IMDG, IATA) – 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (chlorothalonil (ISO))

Hazard class (ADR,IMDG, IATA) – Class 9 Miscellaneous Dangerous Goods

Packing group (ADR, IMDG, IATA) – III

Marine pollutant – Yes

Special marking (ADR) – Symbol (fish and tree)

Special precautions (user)

Kemler Number – 90

EMS Number – F-A,S-F

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code – Not applicable.

ADR: Tunnel restriction code – D/E

15. REGULATORY INFORMATION

Water Hazard Class – Water danger class 3 (self assessment): extremely hazardous for water

Hazard-determining components of labelling – Chlorothalonil

Symbol(s)

Xn Harmful

N Dangerous for the environment

Risk (R) phrases

20 Harmful by inhalation.

37/38 Irritating to respiratory system and skin.

40 Limited evidence of a carcinogenic effect.

41 Risk of serious damage to eyes.

43 May cause sensitisation by skin contact.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety (S) phrases

2 Keep out of reach of children

13 Keep away from food, drink and animal feedingstuffs.

23 Do not breathe spray.

24/25 Avoid contact with skin and eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37 Wear suitable protective clothing and gloves.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label).

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

This substance is not to be considered as persistent, bioaccumulative criterion and is not toxic (PBT).

16 OTHER INFORMATION

R Phrases referenced in section 3

R26 Very toxic by inhalation.

R37 Irritating to respiratory system.

R40 Limited evidence of a carcinogenic effect.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Prepared by Sipcam UK Ltd to the best of our current knowledge and information. No responsibility is accepted that the information will be sufficient or correct in all cases. November 2011.